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مفتوح و $q = \frac{1}{\kappa}$

$$14 q^T - 4 \wedge q + 14 = 0$$

$$r_{q^p} - 1 \mid r_q + 1 = 0$$

$$\Rightarrow -1V_q + 14 = 0$$

$$(q-1)(q^{\overline{k}}-14) \Rightarrow \begin{cases} q=1 \\ q=14 \end{cases}$$

$$n^{r+1}, \quad rn, \quad n^{r-1}$$

$$f_1 \wedge f_2 \wedge \dots \wedge f_n \text{ و } f_1 - f_2 = f_3$$

Λ, μ, ν

$$S_n = a_1 \left(\frac{1 - q^n}{1 - q} \right) \Rightarrow \wedge \left(\frac{1 - \left(\frac{1}{r}\right)^n}{1 - \frac{1}{r}} \right)$$

$$14 \times \left(1 - \left(\frac{1}{r}\right)^v\right) = ? \Rightarrow ? = \boxed{151.175} \frac{1}{r}$$

$$1 + q + q^r + q^r + q^r = \frac{|r|}{\lambda 1} \Rightarrow a + aq + aq^r + aq^r + aq^r = a \times \frac{|r|}{\lambda 1}$$

$$r r r + r r r q + r r q r + r r q r + r r q r = \cancel{r r r} \times \frac{1 r}{\Delta t} = \boxed{r q r}^r$$

$$1 r_0 = r r r (q + q^r + q^r + q^r)$$

$$A = 54,0$$

$$B = -A$$

$$\left. \begin{array}{l} A = \dots \\ B = -A \end{array} \right\} \Rightarrow A + B = \dots$$

$$\left. \begin{array}{l} A = 54.9 \\ B = 1 \end{array} \right\}$$

$$\Delta \left\{ \begin{array}{l} \text{---} \\ \text{---} \end{array} \right\} = \text{---}$$

$$\wedge \Rightarrow A+B \in \mathbb{N}, \omega$$

$$-r\pi \geq \frac{-qa}{r} \Rightarrow \dots \quad t_{101} = a_1 + 1 \dots a \Rightarrow -r\pi \cdot r\omega \geq 1$$

$$\frac{1}{r} \Rightarrow a_n = \frac{1}{r} n - r\pi, r\omega$$

$$1 \ 2 \ 1, \sigma_2, \dots, \frac{1}{\sigma_n}$$

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$$a_n \geq 1 \Rightarrow a \times b^n \geq 1 \Rightarrow q^n \geq \frac{1}{r^n} \Rightarrow q \geq \sqrt[n]{\frac{1}{r}}$$

$$\begin{aligned} t_v &= t_1 + 4d \\ t_r &= t_1 + 2d \\ t_q &= t_1 + d \end{aligned}$$

$$\Rightarrow (t_1 + 4d)^2 = (t_1 + 2d)(t_1 + d)$$

$$\cancel{t_1^2} + 12d + 16d^2 = \cancel{t_1^2} + 1 \cdot t_1 d + 14d^2$$

$$r_0 d^2$$

$$r t_1 d + r_0 d^2 = 0 \Rightarrow r d (t_1 + 1 \cdot d) = 0 \Rightarrow r t_1 d = -r_0 d^2 \Rightarrow t_1 = -\frac{r_0}{r} d$$

دستور اول را در صفر

$$\begin{aligned} a_r &= a + d \\ a_r &= a + 3d \\ a_n &= a + 1d \end{aligned}$$

$$\Rightarrow (a+d)(a+3d) = (a+d)^2$$

$$\cancel{a^2} + 4ad + 3d^2 = \cancel{a^2} + 2ad + d^2$$

$\Downarrow$

$$\begin{aligned} a_r &= 4d \\ a_r &= 3d \\ a_n &= 1d \end{aligned}$$

$$r a d = r d^2 \Rightarrow a d = d^2 \Rightarrow a = d$$

$$r a d - r d^2 = 0 \Rightarrow r d (a - d) = 0 \Rightarrow r d = 0 \Rightarrow d = 0$$

$$\Rightarrow q = r \Rightarrow a_1 = \frac{1}{r} \times r = 1$$

$$r a q, r a q^2, a q^3$$

$$r a q^2 = \frac{r a q + a q^3}{2} \Rightarrow r a q^2 = r a q + a q^3$$

$$a q (r q) = a q (r + q^2) \Rightarrow r q = r + q^2$$

$$q^2 - r q + r = (q-1)(q-r+1) = 0$$

$$(n+a_r)(a_{1r}+n) = (a_n+n)^2$$

$$(n+\frac{9}{r})(n-1) = (n+\frac{1}{r})^2$$

$$n^2 + \frac{1}{r}n - \frac{9}{r} = n^2 + \frac{1}{r}n + \frac{1}{r^2}$$

$$\frac{1}{r}n = \frac{-\frac{r}{14}}{\frac{1}{r}} \Rightarrow n = -\frac{r}{14} \Rightarrow \boxed{q = \frac{9}{r}}$$

$$a_n = r, \frac{1}{r}$$

$$d = -\frac{1}{r}, a_n = \frac{1}{r}n + \frac{9}{r}$$

$$a_{1r} = \frac{9}{r} - \frac{1}{r} = \frac{8}{r}$$

$$a_n = \frac{9}{r} - r = \frac{1}{r}$$

$$a_{1r} = -\frac{1}{r} \times \frac{1}{r} + \frac{9}{r} = -1$$

$$a + a q^r + a q^4 = r r \begin{cases} a = a \\ a + d = a q^r \\ a + 4d = a q^4 \end{cases} \Rightarrow (a+d)^2 = a(a+4d)$$

$$\cancel{a^2} + 2ad + d^2 = \cancel{a^2} + 4ad$$

$$d^2 - 2ad = 0$$

$$d(d-2a) = 0 \Rightarrow d - 2a = 0 \Rightarrow d = 2a$$

بنابراین

$$d - 2a = 0 \Rightarrow a = \frac{1}{2}d$$

$$\frac{1}{r}d + \frac{1}{r}d + \frac{4}{r^2}d = r \Rightarrow \frac{2}{r}d = r \Rightarrow d = \frac{r^2}{2}$$